P- BLOCK ELEMENTS

1. Which of the following	g statement is corre	ect?	[M -	2012]		
i)Boron reacts with co	onc.HNO ₃ to form N	litric oxide and bor	ic acid			
ii) Boron reacts with fu	used NaOH to form]	H_2O_2 and boric acid	d			
iii)Boron reacts with Si	iO_2 to form Si and I	B_2O_3				
1) I, ii and iii 2) i	and iii 3)ii and	iii 4) i and ii				
2. The reaction that give	,	,	[M2	0121		
1) 3 C+ 4 HNO ₃ \rightarrow		. F				
2) 6 NaOH+ 2C \rightarrow						
<i>.</i>						
3) $SnO_2+2C \rightarrow$						
4) Fe ₂ O ₃ +3C $-\frac{250^{\circ}-400}{100}$	<u>00° C</u> →					
3. Which one of the follo	wing is the minera	l for tin?	(E-2	010)		
1) galena 2)	cerussite 3)	cassiterite 4) an	nglesite			
4. Identify B in the foll	lowing reaction		(E-0)8)		
$H_4SiO_4 - \frac{1000^{\circ}C}{-H_2O}$	$\rightarrow A \xrightarrow{\text{Carbon}} B + CO.$					
1) Carborundum	2) Quartz 3) S	Silica 4) C	arbon			
5. Aluminium becomes	s passive with		(M-2)	010)		
1) conc. HNO_3	2) dil.H ₂ SO ₄ 3) very dil. HNO ₃	4) conc. H_2SO_4			
6. A mixture of boron trichloride and hydrogen is subjected to silent electric discharge to form 'A' and HCl. 'A' is mixed with NH ₃ and heated to 200°C to form B. The formula of B is (M - 2008)						
		$3) B_3 N_3 H_6$		OI D I S (IVI - 2000)		
7. Duralumin is an allo		/ 5 5 0		AFMC2003)		
	2) A <i>l</i> , Mg and Ni	3) A <i>l</i> , Mg, Mn a				
			s to give a variety of	products. Which one		
among the following 1) B ₂ H ₆ . 2 NH ₃	g is not formed in th 2) B ₁₂ H ₁₂	hese reactions 3) B ₃ Na	`	E-2010) 4) (BN) _n		
	12 12	5 5				
9. A mixture of boron t	·	e v	3.The formula of B is	8		
1) H_3BO_3	2) B_2O_3	3) B_2H_6	$4)B_{3}N_{3}H_{6}$			
 1) H₃BO₃ 10. Which among the formula (19) and the formula (19)	,	3) B_2H_6	$4)B_{3}N_{3}H_{6}$			
, , ,	,	, -	4)B ₃ N ₃ H ₆	[AMU2009]		

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11. The hardest subst	tance is		[P	MT2009]				
1) Iron	2) Steel	3) graphite	4) diam	ond				
12. SiO2 is reacted w	2. SiO2 is reacted with Na_2CO_3 , What is the gas liberated?							
1) CO	2)CO ₂	3)O ₂	4)O ₃					
13. White lead is			[C]	PMT2007]				
1) Pb ₃ O ₄	2) PbO	3) 2PbCO ₃ .Pb(OH	$(1)_2$ 4)Pb(4)	CH ₃ COO) ₂ .Pb(OH) ₂				
14. The stability of +1	oxidation state in	creases in the sequence	e [,	AIPMT2009]				
1)Al <ga<in<tl< td=""><td>2)Tl<in<ga<al< td=""><td>3)In<tl<ga<al< td=""><td>4)Ga<in<al< td=""><td><ti< td=""></ti<></td></in<al<></td></tl<ga<al<></td></in<ga<al<></td></ga<in<tl<>	2)Tl <in<ga<al< td=""><td>3)In<tl<ga<al< td=""><td>4)Ga<in<al< td=""><td><ti< td=""></ti<></td></in<al<></td></tl<ga<al<></td></in<ga<al<>	3)In <tl<ga<al< td=""><td>4)Ga<in<al< td=""><td><ti< td=""></ti<></td></in<al<></td></tl<ga<al<>	4)Ga <in<al< td=""><td><ti< td=""></ti<></td></in<al<>	<ti< td=""></ti<>				
15. The tendency of B	F3, BCl3 and BBr3	3 to behave as lewis acid	d decreasing in	the sequence				
			[4	AIPMT2010]				
1) BF ₃ >BCl ₃ > BBr ₃	2) BCl ₃ >BF ₃	$B > BBr_3$						
3) BBr ₃ >BCl ₃ >BF ₃	4) BBr ₃ > BF ₃	3>BCl ₃						
16.Which one of the following anion is present in the Chain structure of silicates?								
				[AIPMT2007]				
1)Si ₂ O ₇ ⁻⁶	$2)(Si_2O_5^{2-})_x$	3) $(SiO_3^{2-})_x$	$4)SiO_{4}^{-4}$					
17. Borax is used as a cleaning agent because on dissolving in water it gives								
				[AIIMS2006]				
1) alkaline solution	2) acidic solution	on 3)bleaching solution	ion 4) colloid	lal solution				
18. The hybridization of carbon in Fullerene is								
				[AFMC 2002]				
1) SP^{3}	2) SP^2	3)SP	4) SP^3d					
19. The silicates which	does not contain	discrete anions are						
				[JIPMER2006]				
1) sheet silicates	2) cyclic silica	ates 3) ortho silicates	4) pyro si	licates				
20. which of the follow	ving oxidation sta	tes are the most charac	cteristic for Le	ad and Tin				
Respectively								
				[AIPMT2007]				
1)+4, +2	2) +2, +4	3) +4, +4	4) +2, +2					
21. Inorganic graphite	e is			[AFMC 2006]				
$1)B_{3}N_{3}H_{6}$	2) $(BN)_x$	3)SiC	4)Fe(CO) ₅					
22. Diamond is harder	than graphite be	ecause						
				[AMU2006]				
1) graphite is planar	*	liamond has free electron	n					
3) graphite is SP^3 hy		none of these						
23. Boron shows single				[AMU2006]				
1) inert pair effect	2) screening effect	et 3) isotope effect	4)none of these	2				

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24. Which of the following is acidic in nature						[AIIMS	2004]		
1) B(C		2) Al(OH);			0H) ₂	4) Mg(OH	I) ₂	-	
25. Th	25. The liquefied metal expanding on solidification is [AFMC 2007]								
1) A	_	2) Cu		3) G		4) Z	-		
,		,	faanha	,		,		vorted to D A	and D
26. A and B are the compounds of carbon. A on passing over red hot coke is converted to B. A and B respectively are (M-2010)									
1) (CO and CO ₂	2) CH ₄ a	nd C ₂ H	6	3) CO ₂	and CO			Þ.
	drolysis of SiC	-	-	Ū.	-	-	-		forms
-	Identify X and		-					· 2008)	1011115
	H ₄ SiO ₄ and Si e chemical for			i3) SiO ₂ a	and SiC	4) H ₄ SiO ₄ a [E20		
1)	KAlSi ₃ O ₈	2) Na_3AlF_6	3)	NaAlO ₂	4)	$K_2 SO_4 Al_2$	SO_4) ₃ .4Al($OH)_3$	
29.In Di	borane ,the H-	B-H angles	are nea	rly					
							_	MS2005]	
1) 60	$120^{\circ} \cdot 120^{\circ} 2) 9$	5° ,150 ⁰	3)	95°,120	0	4) 120 ⁰ ,	180^{0}		
30. Qua	artz is a/an						[JIP]	MER2003]	
1) sh	neet silicates	2) o	rtho sili	cates					
3) pyro silicates4) three dimensional silicates									
KEY									
1) 2	2)1 3)3	4) 4	5)1	6)3	7)3	8)2	9) 4	10)2	
11) 4 1	2)2 13)3	14)1	15)3	16)3	17)1	18)2	19)1	20)2	
21) 2 2	2)1 23)1	24)1	25)3	26)3	27)1	28)1	29)3	30)4	

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